

Republic County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Republic County economy.¹

These 17 sectors have a total direct output of approximately **\$203.7 million** and support **771 jobs** in Republic County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Republic County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	770.8	23.32%	\$61,565,926	31.35%	\$203,650,217
Indirect Effect	178.6	5.40%	\$12,546,963	6.39%	\$26,809,662
Induced Effect	237.6	7.19%	\$13,484,368	6.87%	\$27,241,266
Total Effect	1187.0	35.91%	\$87,597,257	44.60%	\$257,701,144

As shown in the above table, agriculture, food, and food processing sectors support **1,187 jobs**, or **35.91%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$87.6 million**, or **44.60% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **326 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Republic County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	326.0	\$45,211,526
Grain farming	143.5	\$58,713,749
Wholesale trade	76.5	\$12,436,701
All other crop farming	63.4	\$5,413,810
All other food manufacturing	62.0	\$20,070,703
Oilseed farming	47.8	\$54,007,873
Support activities for agriculture and forestry	40.4	\$1,865,934
Farm machinery and equipment manufacturing	35.8	\$13,265,949
Hospitals	26.0	\$3,562,630
Truck transportation	19.8	\$3,313,037

The grain farming sector directly contributes approximately **\$58.7 million** to the Republic County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	143.5	\$58,713,749
Oilseed farming	47.8	\$54,007,873
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	326.0	\$45,211,526
All other food manufacturing	62.0	\$20,070,703
Farm machinery and equipment manufacturing	35.8	\$13,265,949
Wholesale trade	76.5	\$12,436,701
All other crop farming	63.4	\$5,413,810
Owner-occupied dwellings	0.0	\$5,108,143
Hospitals	26.0	\$3,562,630
Monetary authorities and depository credit intermediation	18.4	\$3,544,674

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Republic County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	47.8	\$54,007,873.54
Grain farming	143.5	\$58,713,748.93
Vegetable and melon farming	8.6	\$1,080,111.27
Fruit farming	0.4	\$19,494.59
Tree nut farming	0.0	\$9.73
Greenhouse, nursery, and floriculture production	16.1	\$1,378,000.14
All other crop farming	63.4	\$5,413,809.78
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	326.0	\$45,211,524.96
Poultry and egg production	0.5	\$291,387.56
Animal production, except cattle and poultry and eggs	4.4	\$535,959.60
Support activities for agriculture and forestry	40.4	\$1,865,934.37
Bread and bakery product, except frozen, manufacturing	2.6	\$291,042.09
Frozen cakes and other pastries manufacturing	0.2	\$23,144.25
All other food manufacturing	62.0	\$20,070,703.51
Farm machinery and equipment manufacturing	35.8	\$13,265,949.25
Veterinary services	12.5	\$1,246,291.64
Landscape and horticultural services	6.6	\$235,230.67

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Republic County, the retail sector was omitted.